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OM protein - protein search, using sw model

Run on: August 9, 2003, 16:11:13 ; Search time 45.2571 seconds  
(without alignments)  
56.115 Million cell updates/sec

Title: US-09-905-691-5

Perfect score: 16

Sequence: 1 CRRARRARRARRAEA 16

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 1107863 seqs, 158726573 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : A\_Geneseq\_19Jun03.\*  
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22: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.\*  
23: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.\*  
24: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15	93.8	15	23	Peptide Arg Helix
2	15	93.8	16	23	Peptide Tris-Arg H
3	15	93.8	19	21	Heparin binding pe
4	15	93.8	19	23	Peptide Bis-Arg He
5	9	56.2	19	21	Heparin binding pe
6	9	56.2	92	20	M. tuberculosis an
7	9	56.2	92	20	M. tuberculosis re
8	9	56.2	105	23	M. tuberculosis an
9	9	56.2	160	20	M. tuberculosis an

10	56.2	160	20	AA39043	M. tuberculosis re
11	8	50.0	15	21	Peptide modulating
12	8	50.0	71	22	Protonibacterium
13	8	50.0	262	23	Breast cancer - CA
14	8	50.0	262	23	ABJ10474
15	8	50.0	262	24	AAU10338
16	8	50.0	272	22	Novel human CASB74
17	8	50.0	272	22	Novel human CASB74
18	8	50.0	361	23	Novel human CASB74
19	7	43.8	617	22	Protonibacterium
20	7	43.8	21	19	Protonibacterium
21	7	43.8	21	19	Heparin binding pe
22	7	43.8	21	24	H. influenzae Hap
23	7	43.8	47	20	Fragment of human
24	7	43.8	59	22	Protonibacterium
25	7	43.8	107	22	Novel human secret
26	7	43.8	120	22	Human lung tumour
27	7	43.8	120	23	ABU85527
28	7	43.8	120	24	ABU69499
29	7	43.8	120	24	ABU66401
30	7	43.8	121	21	ABU42466
31	7	43.8	124	23	ABG60198
32	7	43.8	161	23	ABP41851
33	7	43.8	162	21	ABG36000
34	7	43.8	202	22	ABG08277
35	7	43.8	205	20	AA41495
36	7	43.8	240	21	AB42380
37	7	43.8	255	22	AAU50234
38	7	43.8	276	22	ABG90891
39	7	43.8	366	24	ABP57738
40	7	43.8	397	24	ABP57732
41	7	43.8	406	22	ABG03776
42	7	43.8	423	22	ABG67125
43	7	43.8	423	22	ABG92579
44	7	43.8	423	24	ABE33211
45	7	43.8	476	24	ABP57745
			669	23	ABB79639

#### ALIGNMENTS

##### RESULT 1

AA39043  
ID AAB71432 standard; peptide; 15 AA.

AC AAB71432;

XX 27-NOV-2002 (first entry)

DT Peptide Arg Helix #3 for construction of Tris-Arg helix #3.

DE Sepsis; branched chain peptide; antibacterial; immunosuppressive;  
endotoxin; helix peptide.

OS Synthetic.

XX Key Location/Qualifiers  
FH Modified-site 1

FT /note= "This residue has a side chain  
C(O)-NepsilomH-(CH2)3-Tris-ArgHel#3, where  
the Tris-ArgHel#3 is represented in AAB71431"

FT Modified-site 16 /note= "Acylated residue"

XX EPI232754-AA2.

PD 21-AUG-2002.

FF 14-FEB-2002; 2002EP-0251027.

XX M. tuberculosis re

XX M. tuberculosis an

PA (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

XX Harris RB, Wolz RL, Wolz G;  
 PI WPI; 2002-659478/71.  
 XX Use of cationic helix peptides for treatment of sepsis and for the  
 PT detection and removal of endotoxins -  
 PT Disclosure; Fig 2; 18pp; English.  
 XX This invention describes a novel use of antibacterial and  
 CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,  
 CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament  
 CC for the treatment of sepsis and the detection and removal of endotoxins.  
 CC The peptides of the invention are used in a method for detecting  
 CC endotoxin in a sample comprising contacting the sample with a labelled  
 CC helix peptide and then detecting the presence of any labelled molecule  
 CC bound to endotoxin. The peptides can also be used in a method for  
 CC removing endotoxin in a sample which comprises exposing the sample to a  
 CC helix peptide, bound to a solid support, or the peptides may be used to form an  
 CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for  
 CC removal of endotoxins from plasma fractionation products. They are also  
 CC used as model frameworks for endotoxin binding from which new analogues  
 CC may be designed. This sequence represents the peptide Arg Helix #3 which  
 CC is used in the construction of the branched chain peptide Tris-Arg Helix  
 CC #3 described in the method of the invention.  
 XX Sequence 15 AA;  
 SQ

Query Match 93.8%; Score 15; DB 23; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 8.1e-07;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 RRAAARAARRARAEEA 16  
 DB 1 RRAAARAARRARAEEA 15  
 |||||

RESULT 2  
 AAB71430  
 ID AAB71430 standard; peptide; 16 AA.  
 AC AAB71430;  
 DT 27-NOV-2002 (first entry)  
 DE Peptide Tris-Arg Helix #3 fragment.  
 KW Sepsis; branched chain peptide; antibacterial; immunosuppressive;  
 KW endotoxin; helix peptide.  
 XX Synthetic.  
 OS  
 FH Key Location/Qualifiers  
 FT Modified-site 16  
 FT /note= "Ala is modified by unidentified R1 group"  
 XX EP1232754-A2.  
 XX 21-AUG-2002.  
 XX 14-FEB-2002; 2002EP-0251027.  
 XX 14-FEB-2001; 2001US-268410P.  
 XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.  
 XX Harris RB, Wolz RL, Wolz G;  
 XX WPI; 2002-659478/71.  
 XX Use of cationic helix peptides for treatment of sepsis and for the

PT detection and removal of endotoxins -  
 PS Disclosure; Fig 1B; 18pp; English.  
 XX This invention describes a novel use of antibacterial and  
 CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,  
 CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament  
 CC for the treatment of sepsis and the detection and removal of endotoxins.  
 CC The peptides of the invention are used in a method for detecting  
 CC endotoxin in a sample comprising contacting the sample with a labelled  
 CC helix peptide and then detecting the presence of any labelled molecule  
 CC bound to endotoxin. The peptides can also be used in a method for  
 CC removing endotoxin in a sample which comprises exposing the sample to a  
 CC helix peptide, bound to a solid support, or the peptides may be used to form an  
 CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for  
 CC removal of endotoxins from plasma fractionation products. They are also  
 CC used as model frameworks for endotoxin binding from which new analogues  
 CC may be designed. This sequence represents the peptide Arg Helix #3 which  
 CC is used in the construction of Tris-Arg Helix #3, a branched chain  
 CC peptide described in the method of the invention.  
 XX Sequence 16 AA;  
 SQ

Query Match 93.8%; Score 15; DB 23; Length 16;  
 Best Local Similarity 100.0%; Pred. No. 8.5e-07;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 RRAAARAARRARAEEA 16  
 DB 2 RRAAARAARRARAEEA 16  
 |||||

RESULT 3  
 AAY87840  
 ID AAY87840 standard; peptide; 19 AA.  
 XX AAY87840;  
 AC AAY87840;  
 DT 01-SEP-2000 (first entry)  
 DE Heparin binding peptide Bis-Arg helix #2.  
 KW Heparin binding peptide; antagonist; cardiovascular; coagulant;  
 KW bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;  
 KW protamine substitute; treatment.  
 XX Synthetic.  
 OS  
 FH EP999219-A2.  
 FT 10-MAY-2000.  
 XX 01-OCT-1999; 99EP-0119514.  
 XX 06-OCT-1998; 98US-0166930.  
 XX (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.  
 XX Harris RB, Sobel M;  
 XX WPI; 2000-306005/27.  
 XX New heparin binding molecules, useful for reducing heparin content in a  
 XX mammal by reducing the anticoagulant effects of heparin -  
 XX Example 1; Fig 1a; 39pp; English.  
 XX This invention describes novel heparin binding molecules (I). The  
 CC molecules (I) are useful as heparin antagonist drugs for cardiovascular  
 CC application and specifically neutralize heparin's conventional  
 CC anticoagulant properties. (I) are also useful for counteracting actions  
 CC of heparin locally e.g. in bleeding wounds, vascular anastomoses or

CC leaking prosthetic vascular grafts. (1) is also useful combined in a  
 CC pharmaceutical composition with insulin, as a substitute for protamine  
 CC for use in treating diabetics. The heparin binding molecules (1)  
 CC specifically neutralize heparin's conventional anticoagulant properties  
 CC without causing deleterious hemodynamic side-effects or exacerbation of  
 CC the proliferative vascular response to injury. (1) are short-duration,  
 CC intravenous drugs to be used in elective or emergency situations which  
 CC can safely and specifically neutralize heparin's proliferative response  
 CC to injury. This sequence represents a heparin-binding peptide described  
 CC in the method of the invention.

XX Sequence 19 AA;  
 SQ Query Match 93.8%; Score 15; DB 21; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 9.7e-07;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARAAARRAAEA 16  
 Db 5 RRAAARAAARRAAEA 19  
 |||||

RESULT 4  
 AAB71428  
 ID AAB71428 standard; peptide; 19 AA.

XX AC AAB71428;

XX DT 27-NOV-2002 (first entry)

XX DE Peptide Bis-Arg Helix #2 fragment #1.

XX KW Sepsis; branched chain peptide; antibacterial; immunosuppressive;  
 XX endotoxin; helix peptide.

XX OS Synthetic.

XX FH Key Location/Qualifiers

XX FT Modified-site 19 /note= "Ala is modified by unidentified R1 group"

XX PN EP1232754-A2.

XX PD 21-AUG-2002.

XX PF 14-FEB-2002; 2002EP-0251027.

XX PR 14-FEB-2001; 2001US-368410P.

XX PA (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

XX PI Harris RB, Wolz RL, Wolz G;

XX PS WPI; 2002-659478/71.

XX DR Use of cationic helix peptides for treatment of sepsis and for the  
 XX PT detection and removal of endotoxins

XX PS Disclosure; Fig 1A; 18pp; English.

XX This invention describes a novel use of antibacterial and  
 CC immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2,  
 CC Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament  
 CC for the treatment of sepsis and the detection and removal of endotoxins.  
 CC The peptides of the invention are used in a method for detecting  
 CC endotoxin in a sample comprising contacting the sample with a labelled  
 CC helix peptide and then detecting the presence of any labelled molecule  
 CC bound to endotoxin. The peptides can also be used in a method for  
 CC removing endotoxin in a sample which comprises exposing the sample to a  
 CC helix peptide, bound to a solid support, then collecting the sample. The  
 CC endotoxin removal may be in vivo, or the peptides may be used to form an  
 CC affinity trap for endotoxins in e.g. dialysis-type treatments, or for  
 CC removal of endotoxins from plasma fractionation products. They are also

CC used as model frameworks for endotoxin binding from which new analogues  
 CC may be designed. This sequence represents the peptide Arg Helix #2 which  
 CC is used in the construction of Bis-Arg Helix #2, a branched chain peptide  
 CC described in the method of the invention.

XX Sequence 19 AA;

XX Query Match 93.8%; Score 15; DB 23; Length 19;  
 XX Best Local Similarity 100.0%; Pred. No. 9.7e-07;  
 XX Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRAAARAAARRAAEA 16  
 Db 5 RRAAARAAARRAAEA 19  
 |||||

RESULT 5  
 AAY87834  
 ID AAY87834 standard; peptide; 19 AA.

XX AC AAY87834;

XX DT 01-SEP-2000 (first entry)

XX DE Heparin binding peptide Arg helix #1.

XX KW Heparin binding peptide; antagonist; cardiovascular; coagulant;  
 XX bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;  
 XX protamine substitute; treatment.

XX OS Synthetic.

XX PN EP999219-A2.

XX PD 10-MAY-2000.

XX PF 01-OCT-1999; 99EP-0119514.

XX PR 06-OCT-1998; 98US-0166930.

XX PA (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.

XX PI Harris RB, Sobel M;

XX PS WPI; 2000-306006/27.

XX PT New heparin binding molecules, useful for reducing heparin content in a  
 XX PT mammal by reducing the anticoagulant effects of heparin

XX PS Example 1; Page 7; 39pp; English.

XX This invention describes novel heparin binding molecules (1). The  
 CC molecules (1) are useful as heparin antagonist drugs for cardiovascular  
 CC application and specifically neutralize heparin's conventional  
 CC anticoagulant properties. (1) are also useful for counteracting actions  
 CC of heparin locally e.g. in bleeding wounds, vascular anastomoses or  
 CC leaking prosthetic vascular grafts. (1) is also useful combined in a  
 CC pharmaceutical composition with insulin, as a substitute for protamine  
 CC for use in treating diabetics. The heparin binding molecules (1)  
 CC specifically neutralize heparin's conventional anticoagulant properties  
 CC without causing deleterious hemodynamic side-effects or exacerbation of  
 CC the proliferative vascular response to injury. (1) are short-duration,  
 CC intravenous drugs to be used in elective or emergency situations which  
 CC can safely and specifically neutralize heparin's proliferative response  
 CC to injury. This sequence represents a heparin-binding peptide described  
 CC in the method of the invention.

XX Sequence 19 AA;

XX Query Match 56.2%; Score 9; DB 21; Length 19;  
 XX Best Local Similarity 100.0%; Pred. No. 0.15;  
 XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;





QY 7 AAARRARAE 15  
DB 31 AAARRARAE 39

RESULT 11  
ID AAB08179 standard; peptide; 15 AA.  
XX AAB08179;  
XX 04-DEC-2000 (first entry)  
XX Peptide modulating activity of heparin, and other glycans.  
XX Glycoaminoglycan; proteoglycan; heparin modulation; anticoagulant;  
KW cell attachment; cell adhesion; vein graft; tumour cell metastasis;  
KW cartilage differentiation; wound healing.  
XX Synthetic.  
OS WO200045831-A1.  
XX 10-AUG-2000.  
XX 02-FEB-2000; 2000WO-US02853.  
XX 02-FEB-1999; 99US-0118276.  
XX (UJTE-) UNIV JEFFERSON THOMAS.  
XX San Antonio JD, Verrecchio A, Schlick BP;  
XX WPI; 2000-543446/49.  
XX Novel synthetic peptides with high affinity for glycoaminoglycans and  
PT proteoglycans, useful for modulating heparin, promoting cell  
PT attachment, modulating tumour metastasis and modulating wound healing  
XX Disclosure; Page 31; 76pp; English.  
XX The present sequence represents a synthetic peptide which has a high  
CC affinity for glycoaminoglycans and proteoglycans. The peptide is useful  
CC in methods for modulating heparin or other glycoaminoglycans with  
CC anticoagulant activity, promoting cell attachment or adhesion to  
CC natural or synthetic surfaces (especially vein grafts), modulating  
CC tumour cell metastasis, modulating cartilage differentiation, targeting  
CC drugs to epithelial cell surfaces (or to other cells expressing  
CC proteoglycans), modulating enzymes that act on glycoaminoglycan  
CC substrates, affinity purification of bioactive sequences of a  
CC glycoaminoglycan, modifying endothelial cell pro-coagulant or  
CC anti-coagulant functions mediated through glycoaminoglycans, and  
CC modulating wound healing. The peptide may also be used for blocking  
CC tissue uptake of heparin or other glycoaminoglycans in a mammal to  
CC increase heparin half-life in circulation.  
XX Sequence 15 AA;  
SQ Query Match 50.0%; Score 8; DB 21; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.91;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AAARRARA 14  
DB 1 AAARRARA 8

RESULT 12  
ID AAU46667 standard; Protein; 71 AA.  
XX AAU46667  
XX AAU46667;  
AC  
XX

QY 7 AAARRARAE 10  
DB 17 RAARRARAE 24

RESULT 13  
ID ABJ10474 standard; Protein; 262 AA.  
XX ABJ10474;  
AC  
XX

QY 3 RAARRARAE 10  
DB 17 RAARRARAE 24

Query Match 50.0%; Score 8; DB 22; Length 71;  
Best Local Similarity 100.0%; Pred. No. 3.1;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DT 27-FEB-2002 (first entry)  
XX Propionibacterium acnes immunogenic protein #7563.  
DE  
XX  
KW SAPHO syndrome; synovitis; acne; pustulosis; hypertonosis; osteomyelitis;  
KW uveitis; endophthalmitis; bone joint; central nervous system; ELISA;  
KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;  
KW dermatological; osteopathic; neuroprotectant.  
XX  
XX Propionibacterium acnes.  
XX WO200181581-A2.  
XX 01-NOV-2001.  
XX 20-APR-2001; 2001WO-US12865.  
XX 21-APR-2000; 2000US-199047P.  
PR 02-JUN-2000; 2000US-208841P.  
PR 07-JUL-2000; 2000US-216747P.  
XX (CORI-) CORIXA CORP.  
PA Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;  
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;  
XX WPI; 2001-616774/71.  
DR N-PSDB; AAS59534.  
XX Propionibacterium acnes polypeptides and nucleic acids useful for  
PT vaccinating against and diagnosing infections, especially useful for  
PT treating acne vulgaris.  
XX Example 1; SEQ ID No 7862; 1069pp; English.  
PS Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic  
XX polypeptides. The proteins and their associated DNA sequences are used in  
CC the treatment, prevention and diagnosis of medical conditions caused by  
CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,  
CC pustulosis, hypertonosis and osteomyelitis), uveitis and endophthalmitis.  
CC P. acnes is also involved in infections of bone, joints and the central  
CC nervous system, however it is particularly involved in the inflammatory  
CC lesions associated with acne vulgaris. A method for detecting the  
CC presence or absence of P. acnes in a patient comprises contacting a  
CC sample with a binding agent that binds to the proteins of the invention  
CC and determining the amount of bound protein in the sample. The  
CC polypeptides may be used as antigens in the production of antibodies  
CC specific for P. acnes proteins. These antibodies can be used to  
CC downregulate expression and activity of P. acnes polypeptides and  
CC therefore treat P. acnes infections. The antibodies may also be used as  
CC diagnostic agents for determining P. acnes presence, for example, by  
CC enzyme linked immunosorbent assay (ELISA).  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX Sequence 71 AA;  
SQ Query Match 50.0%; Score 8; DB 22; Length 71;  
Best Local Similarity 100.0%; Pred. No. 3.1;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



PN WO200292627-A2.  
XX  
PD 21-NOV-2002.  
XX  
PF 07-MAY-2002; 2002WO-EP05011.  
XX  
PR 16-MAY-2001; 2001GB-0011974.  
XX  
PA (GLAX ) GLAXOSMITHKLINE BIOLOGICALS SA.  
XX  
PI Coche T, Gaulis SRJ, Vinals De Bassols YC;  
XX  
XX WPI; 2003-120647/11.  
DR N-PSDB; AAD51534.  
DR  
XX  
XX  
PT Use of a CASB7439 polynucleotide or polypeptide for manufacturing a  
PT medicament for immunotherapeutically preventing or treating a patient  
PT suffering from or susceptible to preneoplastic lesions of lung cancer  
PT and lung cancer  
XX  
XX  
PS Disclosure; Column 74-75; 55pp; English.  
XX  
XX  
CC The invention relates to use of CASB7439 sequences for manufacturing a  
CC medicament for immunotherapeutically preventing or treating a patient  
CC suffering from or susceptible to preneoplastic lesions of lung cancer,  
CC and lung cancer and methods for diagnosing lesions. CASB7439 sequences  
CC are useful for manufacturing a medicament for treating preneoplastic  
CC lesions of lung cancer and lung cancer, such as SCLC, NSCLC (e.g. large  
CC cell (undifferentiated) carcinoma), squamous (epidermoid) carcinoma,  
CC carcinoids, adenocarcinoma (including bronchoalveolar), bronchial gland  
CC tumours or mesotheliomas. CASB7439 DNA is used in gene therapy. The  
CC present sequence is human CASB7439 protein.  
XX  
SQ Sequence 262 AA;  
  
Query Match 50.0%; Score 8; DB 24; Length 262;  
Best Local Similarity 100.0%; Pred. No. 8.6;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 2 RRAARAAA 9  
| | | | | | | |  
Db 134 RRAARAAA 141  
  
Search completed: August 9, 2003, 16:29:07  
Job time : 45.2571 secs